

**NEW UTILITY PATENT APPLICATION  
TRANSMITTAL***(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))*Docket No.  
M4065.0290/P290Total pages in this  
submission  
52**TO THE COMMISSIONER FOR PATENTS  
Box Patent Application  
Washington, D.C. 20231**

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

**DRAM WITH HIDDEN REFRESH**

and invented by:

**Kevin J. Ryan****IF A CONTINUATION APPLICATION**, check appropriate box and supply requisite information:☐

Continuation

☐

Divisional

☐

Continuation-in-part (CIP) of prior application No.:

Enclosed are:

**Application Elements**

1. ☐ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 30 pages(s) and including the following:
  - a. ☒ Descriptive title of the invention
  - b. ☐ Cross references to related applications *(if applicable)*
  - c. ☐ Statement regarding Federally-sponsored research/development *(if applicable)*
  - d. ☐ Reference to microfiche appendix *(if applicable)*
  - e. ☒ Background of the invention
  - f. ☒ Brief summary of the invention
  - g. ☒ Brief description of the drawings *(if drawings filed)*
  - h. ☒ Detailed description
  - i. ☒ Claims as classified below
  - j. ☒ Abstract of the disclosure

### Application Elements (continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 U.S.C. 113)
- ☐ Formal ☒ Informal Number of sheets: 7
4. ☒ Oath or Declaration
- a. ☒ Newly executed (original or copy) ☐ Unexecuted
- b. ☐ Copy from a prior application (37 C.F.R. 1.63(d) (for continuation/divisional applications only))
- c. ☐ With Power of Attorney ☒ Without Power of Attorney
5. ☐ Incorporation by reference (usable if Box 4b is checked)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is Supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Computer program in microfiche
7. ☐ Genetic sequence submission (if applicable, all must be included)
- a. ☐ Paper copy
- b. ☐ Computer readable copy
- c. ☐ Statement verifying identical paper and computer readable copies

### **Accompanying Application**

8. ☒ Assignment papers (*cover sheet & document(s)*)
9. ☒ Power of Attorney and 37 C.F.R. 3.73(b) Statement (*when there is an assignee*)
10. ☐ English translation document (*if applicable*)
11. ☐ Information Disclosure Statement/PTO-1449      ☐ Copies of IDS citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☐ Certified copy of priority document(s) (*if foreign priority is claimed*)
15. ☐ Certificate of Mailing
- ☐ First Class      ☐ Express Mail (Label No.: \_\_\_\_\_ )
16. ☐ Small Entity statement(s) -- # submitted (*if Small Entity status claimed*)

17. ☐ Additional enclosures (please identify below):

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☒ Large Entity      ☐ Small Entity.

☒ A check in the amount of \$1498.00 to cover the total filing fee is enclosed.

☒ The Commissioner is hereby authorized to charge Deposit Account No. 4 - 1073 as described below.  
A duplicate copy of this sheet is enclosed.

☐ Charge the amount of \_\_\_\_\_ as filing fee.

☒ Credit any overpayment.

☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.

☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.31(b).

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